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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/596,347	04/16/2007	Diego Caviglia	4015-5823	5523
24112 COATS & BEN	7590 10/14/201 NETT. PLLC	EXAMINER		
1400 Crescent (Green, Suite 300	CHOUDHRY, SAMINA F		
Cary, NC 27513	0		ART UNIT	PAPER NUMBER
			2462	
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			10/14/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Ap	plication No.	Applicant(s)	Applicant(s)			
		10	0/596,347	CAVIGLIA, DIEG	CAVIGLIA, DIEGO			
Office Action Summary			aminer	Art Unit				
		SA	AMINA CHOUDHRY	2462				
Period fo	The MAILING DATE of this commun or Reply	ication appears	s on the cover sheet with	the correspondence ac	ddress			
A SH WHIC - Exter after - If NC - Failu Any r	ORTENED STATUTORY PERIOD F CHEVER IS LONGER, FROM THE Masions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this common period for reply is specified above, the maximum street or reply within the set or extended period for reply reply received by the Office later than three months and patent term adjustment. See 37 CFR 1.704(b).	IAILING DATE of 37 CFR 1.136(a). nunication. atutory period will ap will, by statute, caus	OF THIS COMMUNIC, In no event, however, may a rep ply and will expire SIX (6) MONTI be the application to become ABA	ATION. If you be timely filed HS from the mailing date of this of NDONED (35 U.S.C. § 133).	·			
Status								
1)⊠	Responsive to communication(s) file	ed on 30 July 2	2010					
•			ion is non-final.					
3)	Since this application is in condition	<i>′</i> —		rs. prosecution as to the	e merits is			
- ,—	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
4)🖂	Claim(s) <u>8-24</u> is/are pending in the a	application.						
•	4a) Of the above claim(s) is/are withdrawn from consideration.							
	5) Claim(s) is/are allowed.							
6)🖂	Claim(s) <u>8-24</u> is/are rejected.							
· ·	Claim(s) is/are objected to.							
8)	Claim(s) are subject to restrict	ction and/or ele	ection requirement.					
Applicati	on Papers							
9)□	The specification is objected to by th	e Examiner.						
•			ed or b) objected to b	the Examiner.				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
	Replacement drawing sheet(s) including				FR 1.121(d).			
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority ι	ınder 35 U.S.C. § 119							
· .	Acknowledgment is made of a claim ☐ All b)☐ Some * c)☐ None of:	for foreign pric	ority under 35 U.S.C. §	119(a)-(d) or (f).				
	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No							
	3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).								
* See the attached detailed Office action for a list of the certified copies not received.								
Attachmen			🗖					
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (F	PTO-948)		mmary (PTO-413) Mail Date				
	nation Disclosure Statement(s) (PTO/SB/08)	10-0-0)		ormal Patent Application				
Paper No(s)/Mail Date 6) Other:								

DETAILED ACTION

Response to Arguments

Applicant's arguments, filed 07/30/2010, with respect to the amended claims 8 and 18 have been fully considered, however they are not persuasive. The amended limitations have been addressed in this office action.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 8-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bader et al. (US 6542934) in view of Egoshi et al. (US 6163526).

Regarding claims 8, 18 and 25, Bader discloses to communicate the completion of the secondary traffic circuit activation to the remote agent (Col. 10, lines 1-9; Col. 12, lines 1-15) and to exchange messages with a remote agent associated with a remote transport network element

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to control activation and deactivation of the secondary traffic circuit (Col. 12, lines 1-15; sending an unquiesce signal to Topology and Route Selection and by sending an unquiesce signal to HPR to initiate a path switch from primary to secondary path) by exchanging messages with a corresponding remote agent associated with a remote transport network element (Col.7, lines 32-42; switching between primary and secondary path is implemented by network control hardware/software. The control hardware/software can be located any where in the network), the agent being further configured to:

switch the traffic selector to receive traffic on the secondary traffic circuit (28 of Fig. 3), and send an Activate message to the remote agent to activate the secondary traffic circuit (Col. 10, lines 1-9) if the secondary traffic circuit is not already activated, responsive to detecting a failure on the primary traffic circuit (Col. 7, lines 50-63; During normal operation there is a possibility that secondary circuit is active even if primary circuit is functional. If the secondary circuit is not active then upon failure of primary traffic circuit, the secondary circuit is activated); and an a RevertRequest message to request the remote agent to deactivate a previously activated secondary traffic circuit (44 of Fig. 3; Col. 10, lines 55-63; deactivate the secondary path after primary path is restored); switch the traffic selector to receive traffic on the primary traffic circuit (32 of Fig. 3), and sends a Revert message to the remote agent to request the

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remote agent deactivate the secondary traffic circuit responsive to receiving a RevertRequest message from the remote agent (Col. 11, lines 20-35),responsive to detecting that the failure on the primary traffic circuit no longer exist (30 of Fig. 3; Col. 8, lines 13-17; 39-44) and sends a Revert message to the remote agent to deactivate the secondary traffic circuit if the traffic selector is already switched to receive traffic on the primary traffic circuit (36 and 38 of Fig. 3), response to receiving a Revert Request message from the remote agent (40 of Fig. 3)

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Bader does not explicitly disclose a traffic selector to switch a transport network element between listening to network traffic received over a primary traffic circuit and listening to network traffic received over a secondary traffic circuit; and a split module to send output traffic either to the primary traffic circuit or to the secondary traffic circuit.

In an analogous art, Egoshi discloses a traffic selector (Col. 3, lines 34-35; selector 12) to switch a transport network element between listening to network traffic received over a primary traffic circuit (Col. 3, lines 27-28; working channel line) and listening to network traffic received over a secondary traffic circuit (Col. 3, lines 19-35; protection channel line) a split module (Col. 3, line 44 and Col. 4, lines 20-22; Control unit 109) to send output traffic either to the primary traffic circuit or to the secondary traffic circuit (Col. 3, lines 36-50); and an agent to switch the traffic

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selector between the primary traffic circuit and the secondary traffic circuit (Col. 7, lines 13-21).

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Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention was made to modify Bader's method to add a traffic selector to switch a transport network element between listening to network traffic received over a primary traffic circuit and listening to network traffic received over a secondary traffic circuit; and a split module to send output traffic either to the primary traffic circuit or to the secondary traffic circuit.

The motivation as mentioned Egoshi is to provide switching from working channel line to protection channel line while avoiding instantaneous cutoff when working channel has failed (col. 1,lines 12-15).

Regarding claim 9, Bader in view of Egoshi further discloses that the agent is configured to detect a failure at an input of the primary traffic circuit (Col. 4, lines 17-22).

Regarding claims 10 and 20, Bader in view of Egoshi further discloses that responsive to the agent detecting the failure, the agent is configured to switch the traffic selector to receive the network traffic over the secondary traffic circuit and send the Activate message if the secondary traffic circuit is not already activated (Bader; Col. 11, lines 20-35).

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Regarding claim 11 and 22, Bader in view of Egoshi further discloses that that the failure no longer exists, and to switch the traffic selector to receive the network traffic over the primary traffic circuit and send the RevertRequest message to the remote agent responsive to the detection (Bader; Col. 12, lines 44-56).

Regarding claims 12 and 23, Bader in view of Egoshi further discloses that receiving a RevertRequest message at the first transport network element from the second transport network element (Bader; lines 55-60); and sending a Revert message to the second transport network element to deactivate the secondary traffic circuit if the sub-network connection protection mechanism is in the NoRequest status (Bader; Col. 10, lines 60-62).

Regarding claims 13, 14 and 15, Bader in view of Egoshi discloses that the agent comprises logic to implement a sub-network connection protection mechanism having a NoRequest state (Col. 6, lines 38-45; if there is no channel line failure then no signal is sent to indicate a failure) / the logic entering the NoRequest state indicates that no failure is detected at the input of the primary traffic circuit and that the traffic selector is switched to receive the network traffic over the primary traffic circuit (Col. 8, lines 32-39; Col. 2, lines 40-47; if there is no failure then the selector

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will select the working channel i.e. primary traffic circuit) and a AutoSwitch state/ wherein the logic entering the AutoSwitch state indicates that a failure has been detected at the input to the primary traffic circuit and that the traffic selector is switched to receive the network traffic over the secondary traffic circuit (Col. 4, lines 10-22).

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Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention was made to modify Bader 's system to have that the agent comprises logic to implement a sub-network connection protection mechanism having a NoRequest state/ the logic entering the NoRequest state indicates that no failure is detected at the input of the primary traffic circuit and that the traffic selector is switched to receive the network traffic over the primary traffic circuit and a AutoSwitch state/ wherein the logic entering the AutoSwitch state indicates that a failure has been detected at the input to the primary traffic circuit and that the traffic selector is switched to receive the network traffic over the secondary traffic circuit, as taught by Egoshi.

The motivation as mentioned in Egoshi is to avoid instantaneous cutoff when one of the two channel lines has failed (Col. 1, line 21-23).

Regarding claims 16 and 24, Bader in view of Egoshi discloses that the agent is configured to switch the sub-network connection protection

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mechanism to the NoRequest State responsive to receiving a Revert message from a remote agent/the second network element (Col. 4, lines 15-17; traffic is output on primary traffic circuit in response to the alarm indication received by the control unit, if alarm does not show any failure then traffic is output to the working channel).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention was made to modify Badar's system to add that the agent is configured to switch the sub-network connection protection mechanism to the NoRequest State responsive to receiving a Revert message from a remote agent/the second network element, as taught by Egoshi.

The motivation as mentioned in Egoshi is to avoid instantaneous cutoff when one of the two channel lines has failed (Col. 1, line 21-23).

Regarding claim 17, Bader in view of Egoshi further discloses that the network comprises an Synchronous Digital Hierarchy (SDH) transport network (Egoshi; Abstract). Obvious statement?

Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention was made to modify Badar's system to add that the network comprises an Synchronous Digital Hierarchy (SDH) transport network.

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The motivation as mentioned in Egoshi is to avoid instantaneous cutoff when one of the two channel lines has failed (Col. 1, line 21-23).

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Regarding claim 19, Bader in view of Egoshi discloses detecting a failure at an input to a primary traffic circuit associated with the first transport network element (Badar; 22 of Fig. 3).

Activating a sub-network connection protection mechanism at the first network activating a sub-network connection protection mechanism at the first transport network element responsive to detecting the failure (Bader; Col. 8, lines 1-7), the sub-network connection protection mechanism assuming:

a NoRequest state (Egoshi; Col. 6, lines 38-45; if there is no channel line failure then no signal is sent to indicate a failure to indicate that no failure is detected at the primary traffic circuit and that the first transport network element is configured to receive the network traffic over the primary traffic circuit (Egoshi; Col. 8, lines 32-39; Col. 2, lines 40-47; if there is no failure then the selector will select the working channel i.e. primary traffic circuit) and an AutoSwitch state to indicate that a failure has been detected at the primary traffic circuit and that first transport network element is configured to receive the network traffic over the secondary traffic circuit (Egoshi; Col. 4, lines 10-22).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention was made to modify Bader's method to have a NoRequest state to indicate that no failure is detected at the primary traffic circuit, and that the first transport network element is configured to receive network traffic over the primary traffic circuit; and an AutoSwitch state to indicate that a failure has been detected at the primary traffic circuit, and that the first transport network element is configured to receive the network traffic over the secondary traffic circuit, as taught by Egoshi.

The motivation as mentioned in Egoshi is to avoid instantaneous cutoff when one of the two channel lines has failed (Col. 1, line 21-23).

Regarding claim 21, Bader in view of Egoshi further discloses that switching the sub-network connection protection mechanism to the AutoSwitch state responsive to detecting an error (Bader; Col. 11, lines 30-35);

switching a traffic selector at the first network element to receive the network traffic over the secondary traffic circuit (Col. 11, lines 27-30); and sending the Activate message (Bader; Col 11, lines 23-26).

Regarding claim 26, Bader in view of Egoshi further discloses that wherein the agent comprises logic to implement a sub-network connection

protection function having a NoRequest state (Bader; 20 and 22 of Fig. 3; when there is no failure in Primary Path then there is no request for implementation of secondary path) and a AutoSwitch state (Bader; 22 of Fig. 3; Col. 8, lines 34-43; when there is a failure in Primary Path then automatically switch to secondary path), and wherein: the sub-network connection protection function, upon entering the NoRequest state, indicates that no failure is detected at an input of the primary traffic circuit and that the traffic selector is switched to receive the network traffic over the primary traffic circuit (Bader; 20 and 22 of Fig. 3;); and the sub-network connection protection function, upon entering the AutoSwitch state, indicates that a failure has been detected at the input to the primary traffic circuit and that the traffic selector is switched to receive the network traffic over the secondary traffic circuit (Bader; 22 and 24; Col. 7, lines 58-62; Activate Secondary Path after detection of failure in Primary Path).

Conclusion

1. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL.
See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to SAMINA CHOUDHRY whose telephone

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number is (571)270-7102. The examiner can normally be reached on Monday to Thursday (7:30 a.m. to 5.00p.m.).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Seema Rao can be reached on (571)272-3174. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

SC

10/09/2010

/Seema S. Rao/

Supervisory Patent Examiner, Art Unit 2462

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